

**Notice of Allowability**

Application No.

10/796,554

Examiner

Justin K. Holmes

Applicant(s)

KAJINO ET AL.

Art Unit

3681

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☒ The drawings filed on 09 March 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 7/08/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 7/25/05
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Craig M. Waller on July 25, 2005.

The application has been amended as follows:

In the Specification on:

Page 8, line 15 "low speed gear 13" has been replaced with --low speed gear 12--;

Page 9, line 5 "shaft 3e" has been replaced with --shaft 8e--;

Page 9, line 17 "case 8" has been replaced with --case 24--;

Page 10, line 4 "(fourth transmission shaft) 60" has been replaced with --(fourth transmission shaft) 25--;

Page 10, line 16 "gears 21, 22" has been replaced with --gears 21,23--;

Page 11, line 16 "first transmission gear" has been replaced with --first transmission shaft--;

Page 12, line 5 "portion 36b" has been replaced with --portion 36a"--;

Page 13, line 13 "shaft 41" has been replaced with --shaft 25--;

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Page 14, line 12     the first instance of "gear 40" has been replaced with --gear  
37--;

In the Claims:

- |                  |  |
|------------------|--|
| Claim 1, line 14 | "an input" has been replaced with --a first input--;     |
| Claim 1, line 15 | "an output" has been replaced with --a first output--;   |
| Claim 1, line 18 | before the word "input" --first-- has been inserted;     |
| Claim 1, line 18 | before the word "output" --first-- has been inserted;    |
| Claim 1, line 22 | "an input" has been replaced with --a second input--;    |
| Claim 1, line 23 | "an output" has been replaced with --a second output--;  |
| Claim 1, line 24 | before the word "relay" --further-- has been inserted;   |
| Claim 1, line 25 | before the word "input" --second-- has been inserted;    |
| Claim 1, line 25 | before the word "output" --second-- has been inserted;   |
|                  |  |
| Claim 3, line 6  | "an output" has been replaced with --a third output--;   |
| Claim 3, line 11 | before the word "output" --third-- has been inserted;    |
|                  |  |
| Claim 6, line 1  | before the word "relay" --first-- has been inserted;     |
| Claim 6, line 3  | before the word "input" --first-- has been inserted; and |
| Claim 6, line 4  | before the word "output" --first-- has been inserted.    |

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2. The following is an examiner's statement of reasons for allowance: The prior art of record does not render obvious the first gear transmission mechanism and the second gear transmission mechanism, and particularly including a relay gear loosely mounted to the second transmission shaft for transmitting force from the first input gear to the first output gear; and a further relay gear loosely mounted on the third transmission shaft for transmitting force from the second input gear to the second output gear, and including the remaining structure of Claim 1.

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent No. 4549443 to White; U.S. Patent No. 4721002 to Horii; U.S. Patent No. 5613950 to Maurizio; U.S. Patent No. 5913950 to Matsufuji; and U.S. Patent No. 6889569 to Morimoto et al. The references disclose various transmission designs.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin K. Holmes whose telephone number is (571) 272-5930. The examiner can normally be reached on 8:00am to 4:30pm Monday-Friday.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A. Marmor can be reached on (571) 272-7095. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JKH/7/25/05 

  
**ROGER PANG**  
**PRIMARY EXAMINER**  
7-25-05 